<u>SUBJECT</u> <u>DATE</u>

1056.	Hazardous Waste Tanks and the Less than 90-Day Accumulation Time Limit	ENCORE	APR 23, 2015
1057.	Decharacterized RCRA Waste - Manifesting and LDR Reporting	ENCORE	APR 30, 2015
1058.	Decharacterized Hazardous Waste Listed Solely for Non-Toxic Characteristics	ENCORE	MAY 7, 2015
1059.	Decharacterized Wastes, <90-Day Accumulation Time Limits and LDR Storage Prohibition	ENCORE	MAY 14, 2015
1060.	Decharacterized Wastes and the LDR Dilution Prohibition	ENCORE	MAY 21, 2015
1061.	Hazardous Debris Macroencapsulation and Size Reduction	ENCORE	MAY 28, 2015
1062.	Universal Waste Lamps and Prohibition on Crushing		JUN 4, 2015
1063.	F003 Listed Hazardous Waste and the 10% Rule	ENCORE	JUN 11, 2015
1064.	F001 - F005 Listed Hazardous Waste and the 10% Rule	ENCORE	JUN 18, 2015
1065.	Macroencapsulation of Hazardous Debris and Presence of Free Liquids	ENCORE	JUN 25, 2015
1066.	DOT Shipping of Damaged, Defective or Recalled Lithium Batteries		JUL 1, 2015
1067.	Used Oil Eligibility for Animal and Vegetable Oils	ENCORE	JUL 9, 2015
1068.	Used Oil Eligibility for Petroleum Oils Mixed with Animal or Vegetable Oils		JUL 16, 2015
1069.	Conditioned Exclusion for Listed Hazardous Waste Debris Treated via Extraction/Destruction	ENCORE	JUL 23, 2015
1070.	Conditioned Exclusion for Characteristic Debris Treated via Immobilization		JUL 30, 2015
1071.	RCRA Personnel Training and Classroom Training vs. Online Training		AUG 6, 2015
1072.	PCB Decontamination Standards with No Decontamination Performed		AUG 13, 2015
1073.	PCB Manifest Exceptions a.k.a. When is a PCB Manifest Not Required	ENCORE	AUG 19, 2015
1074.	PCB Manifest Relief a.k.a. When is a PCB Manifest Not Required – The Sequel		AUG 27, 2015
1075.	Hazardous Debris and Radioactively Contaminated Cadmium Batteries	ENCORE	SEP 3, 2015
1076.	Hazardous Debris and Radioactively Contaminated Lead Acid Batteries	ENCORE	SEP 10, 2015
1077.	Mercury Wet Cell Batteries - Debris or Not Debris	ENCORE	SEP 17, 2015
1078.	Hazardous Debris and Non-Radioactive Lead Acid Batteries		SEP 24, 2015
1079.	Unused Paraformaldehyde - U Listed Hazardous Waste or Not?	ENCORE	OCT 1, 2015
1080.	CAS Numbers and the Hazardous Waste "U" and "P" Listings	ENCORE	OCT 8, 2015
1081.	Universal Waste One Year Accumulation and Multiple Handlers	ENCORE	OCT 15, 2015
1082.	LDR Notifications and F001-F005 Constituents of Concern	ENCORE	OCT 29, 2015
1083.	LDR Notifications and F001-F005 Constituents of Concern – Again	ENCORE	NOV 5, 2015
1084.	LDR Notifications and F001-F005 Constituents of Concern - One Last Time	ENCORE	NOV 12, 2015
1085.	DOT and Terminal Protection of Alkaline Batteries	ENCORE	NOV 19, 2015
1086.	Used Oil and Keeping Containers Closed – WAC 173-303 vs. 40 CFR 279		NOV 24, 2015
1087.	PCB Weight Determinations	ENCORE	DEC 3, 2015
1088.	Satellite Accumulation Requirements and Container Inspections	ENCORE	DEC 10, 2015
1089.	'Twas The Night Before Christmas - The Twenty-Third Annual Edition	ENCORE	DEC 24, 2015
1090.	Satellite Accumulation and 85-Gallon Containers	ENCORE	DEC 31, 2015
1091.	PCB Date Removed From Service Notations – On the Item or In a Log	ENCORE	JAN 7, 2016
1092.	The Date Removed From Service Marking on the PCB Mark	ENCORE	JAN 14, 2016
1093.	Generator Weekly Inspection Log Documentation – Federal vs. WA State	ENCORE	JAN 21, 2016
1094.	Used Oil and Weekly Inspections	ENCORE	JAN 28, 2016
1095.	TSCA/PCB Determinations for Fluorescent Light Ballasts via the Manufacture Date	ENCORE	FEB 4, 2016
1096.	PCB Containers and Multiple Removed From Service Dates	ENCORE	FEB 11, 2016
1097.	Generator Inspection Logs and Corrective Action Documentation	ENCORE	FEB 18, 2016
1098.	PCB Concentrations and Micrograms per Centimeters Squared (µg/cm²)		FEB 25, 2016

# TWO MINUTE TRAINING

TO: CH2M HILL PLATEAU REMEDIATION COMPANY

**FROM:** PAUL W. MARTIN, RCRA Subject Matter Expert

CHPRC Environmental Protection, Hanford, WA

**SUBJECT:** PCB CONCENTRATIONS AND MICROGRAMS PER CENTIMETERS SQUARED (µg/cm²)

**DATE:** *FEBRUARY 25, 2016* 

CHPRC Projects	CH PRC - Env.	MSA	Hanford Laboratories	Other Hanford	Other Hanford
	Protection			Contractors	Contractors
Richard Austin		Jerry Cammann	(TBD)		
Roni Ashley	Brett Barnes	Jeff Ehlis		Bill Bachmann	Dan Saueressig
Tania Bates	Mitch Boyd	Garin Erickson	DOE RL, ORP, WIPP	Dean Baker	Merrie Schilperoort
Bob Cathel	Ron Brunke	Lori Fritz		Scott Baker	Joelle Moss
Rene Catlow	Bill Cox	Panfilo Gonzales Jr.	Mary Beth Burandt	Lucinda Borneman	Glen Triner
Richard Clinton	Laura Cusack	Dashia Huff	Duane Carter	Paul Crane	Greg Varljen
Larry Cole	Lorna Dittmer	Mark Kamberg	Cliff Clark	Tina Crane	Julie Waddoups
John Dent	Rick Engelmann	Edwin Lamm	Mike Collins	Greta Davis	Jay Warwick
Brian Dixon	Ted Hopkins	Candice Marple	Tony McKarns	Jeff DeLine	Kyle Webster
Eric Erpenbeck	Sasa Kosjerina	Saul Martinez	Ellen Mattlin	Ron Del Mar	Jeff Westcott
Stuart Hildreth	Jim Leary	Jon Perry	Greg Sinton	John Dorian	Ted Wooley
Mike Jennings	Dale McKenney	Thomas Pysto	Scott Stubblebine	Mark Ellefson	
Stephanie Johansen	Jon McKibben	Christina Robison		Darrin Faulk	
Jeanne Kisielnicki	Rick Oldham	Don Rokkan		Joe Fritts	
Melvin Lakes	Linda Petersen	Lana Strickling		Tom Gilmore	
Jim McGrogan	Fred Ruck	Lou Upton		Rob Gregory	
Stuart Mortensen	Ray Swenson			Gene Grohs	
Anthony Nagel	Wayne Toebe			James Hamilton	
Dean Nester	Lee Tuott			Andy Hobbs	
Dave Richards	Daniel Turlington			Ryan Johnson	
Phil Sheely	Dave Watson			Dan Kimball	
Connie Simiele	Joel Williams			Megan Lerchen	
Jennie Stults				Richard Lipinski	
Michael Waters				Charles (Mike) Lowery	
Jeff Widney				Michael Madison	
				Terri Mars	
				Cary Martin	
				Grant McCalmant	
				Steve Metzger	
				Tony Miskho	
				Matt Mills	
				Tom Moon	
				Chuck Mulkey	
				Mandy Pascual	
				Kirk Peterson	
				Jean Quigley	

#### TWO MINUTE TRAINING

# **SUBJECT:** PCB Concentrations and Micrograms per Centimeters Squared (µg/cm<sup>2</sup>)

- Q: A customer takes a standard wipe sample of a PCB spill area that has been decontaminated the customer hopes. The analytical results indicate a PCB concentration of 9 μg/100 cm². The customer is more familiar with PCB concentrations in parts per millions, i.e., ≥50 ppm is regulated and < 50 ppm is not regulated. Is this PCB spill area considered regulated or no longer regulated for PCBs?
- A: Per 40 CFR 761.1(b)(3) it basically states that most provisions in this part apply only if PCBs are present in concentrations above a specified level. Prohibitions that apply to PCBs at concentrations of:
  - <50 ppm apply also to contaminated surfaces at PCB concentrations of  $\leq$ 10 µg/100 cm<sup>2</sup>,
  - $\geq$  50 to <500 ppm apply also to contaminated surfaces at PCB concentrations of >10/100 cm<sup>2</sup> to <100 µg/100 cm<sup>2</sup>,
  - $\geq$ 500 ppm apply also to contaminated surfaces at PCB concentrations of  $\geq$ 100 µg/100 cm<sup>2</sup>.

As further clarification, the <u>June 2014 EPA TSCA PCB Question and Answer Manual</u> on page 3 includes this table concerning a decontaminated PCB Transformer and the wipe sample concentrations:

If the concentration of the wipe sample is	<b>Then</b> the transformer is regulated as
$≤10 \mu \text{g}/100 \text{cm}^2$	non-PCB
$>10$ but $<100 \mu g/100 cm^2$	PCB-Contaminated
>100 μg/100 cm <sup>2</sup> PCB Transformer	PCB Transformer

Since the customer's standard wipe sample result was 9  $\mu$ g/100 cm<sup>2</sup> which is below the  $\leq$ 10  $\mu$ g/100 cm<sup>2</sup> threshold that equates to <50 ppm PCBs, the customer's spill area is considered nonregulated for PCBs, i.e., non-PCB.

### **SUMMARY:**

- $\leq$ 10 µg/100 cm<sup>2</sup> equals non-PCB or <50 ppm.
- >10 but  $<100 \mu g/100 \text{ cm}^2$  equals PCB-Contaminated or  $\geq$ 50 ppm to <500 ppm.
- >100  $\mu$ g/100 cm<sup>2</sup> equals PCB regulated or  $\geq$ 500 ppm.

Excerpts from 40 CFR 761.3, 40 CFR 761.123 and the June 2014 PCB Q&A are attached to the e-mail. If you have any questions, contact me at Paul W Martin@rl.gov or at (509) 376-6620.

**FROM:** Paul W. Martin **DATE:** 2/25/16 **FILE:** c:\...\2MT\2016\022516.rtf **PG:** 1

#### TWO MINUTE TRAINING - ATTACHMENT

**SUBJECT:** PCB Concentrations and Micrograms per Centimeters Squared (µg/cm<sup>2</sup>)

#### 40 CFR 761.3 Definitions

*PCB-Contaminated* means a non-liquid material containing PCBs at concentrations  $\geq$ 50 ppm but <500 ppm; a liquid material containing PCBs at concentrations  $\geq$ 50 ppm but <500 ppm or where insufficient liquid material is available for analysis, a non-porous surface having a surface concentration >10 µg/100 cm<sup>2</sup> but <100 µg/100 cm<sup>2</sup>, measured by a standard wipe test as defined in §761.123.

*Standard wipe sample* means a sample collected for chemical extraction and analysis using the standard wipe test as defined in §761.123. Except as designated elsewhere in part 761, the minimum surface area to be sampled shall be 100 cm<sup>2</sup>.

## 40 CFR Part 761.123 Definitions

Standard wipe test means, for spills of high-concentration PCBs on solid surfaces, a cleanup to numerical surface standards and sampling by a standard wipe test to verify that the numerical standards have been met. This definition constitutes the minimum requirements for an appropriate wipe testing protocol. A standard-size template (10 centimeters (cm) × 10 cm) will be used to delineate the area of cleanup; the wiping medium will be a gauze pad or glass wool of known size which has been saturated with hexane. It is important that the wipe be performed very quickly after the hexane is exposed to air. EPA strongly recommends that the gauze (or glass wool) be prepared with hexane in the laboratory and that the wiping medium be stored in sealed glass vials until it is used for the wipe test. Further, EPA requires the collection and testing of field blanks and replicates.

# June 2014 Version Revisions to the PCB Q and A Manual (June 2014)

## §761.1(b)(3) Bulk and surface concentrations

- 2. Q: May I characterize a drained transformer from which the core, coil, and all free-flowing liquids have been removed by taking a wipe sample from the inside surface of the transformer?
  - A: Yes. However, the wipe sample results may only be used for purposes of disposal (i.e., the drained carcass is not authorized for use). Refer to the following table (§761.1(b)(3)):

<b>If</b> the concentration of the wipe sample is	<b>Then</b> the transformer is regulated as		
$≤10 \mu \text{g}/100 \text{cm}2$	non-PCB		
>10 but <100 μg/100 cm2	PCB-Contaminated		
>100 μg/100 cm2 PCB Transformer	PCB Transformer		

**FROM:** Paul W. Martin **DATE:** 2/25/16 **FILE:** c:\...\2MT\2016\022516.rtf **PG:** 2